

IN THE CLAIMS:

1 1. (CURRENTLY AMENDED) A method for graphically presenting characteristics of data
2 traffic on a distributed computer network, comprising:
3 monitoring traffic on said network;
4 selecting a characteristic of said traffic for display;
5 obtaining a plurality of values of said characteristic for selected time intervals within
6 a larger time interval; and
7 presenting said characteristic by playing a rapid succession of graphical images, each
8 graphical image representing said network as nodes connected by lines, said nodes each rep-
9 resenting components in said network, said lines representing traffic flow between ~~nodes~~ said
10 components, each graphical image graphically representing the value of said characteristic at
11 a particular selected time interval within the larger time interval with a property of at least
12 one line of said lines, said property indicating a value of said characteristic.

1 2-3. (CANCELLED)

1 4. (ORIGINAL) The method as in claim 1, further comprising:
2 using a width of said at least one line as said property.

1 5. (ORIGINAL) The method as in claim 1, further comprising:
2 using a color of said at least one line as said property.

1 6. (ORIGINAL) The method as in claim 1, further comprising:

2 using an arrow drawn on said at least one line as said property.

1 7. (ORIGINAL) The method as in claim 1, further comprising:

2 using a length of said at least one line as said property.

1 8. (ORIGINAL) The method as in claim 1, further comprising:

2 using a density of said at least one line as said property.

1 9. (ORIGINAL) The method as in claim 1, further comprising:

2 using a visual characteristic of said at least one line as said property.

1 10. (ORIGINAL) The method as in claim 1, further comprising:

2 displaying a filtering expression in a graphical user interface;

3 selecting, from said graphical user interface, records from network information files
4 to display said characteristic of said traffic.

1 11. (ORIGINAL) The method as in claim 10, further comprising:

2 calculating parameters that are associated with the records selected from network files
3 and storing the parameters in a local file.

1 12. (CANCELLED)

1 13. (ORIGINAL) The method as in claim 1, further comprising:

2 using a filtering program to select records in network information files that meet se-
3 lected filtering criteria.

1 14. (PREVIOUSLY PRESENTED) The method as in claim 13, further comprising:

2 compiling the selected records from network information files during the selected
3 time intervals, each compiled record meeting at least one selected filtering criterion.

1 15. (ORIGINAL) The method as in claim 14, further comprising:

2 calculating data that represent the compiled records, and storing the data in a file.

1 16. (PREVIOUSLY PRESENTED) The method as in claim 1, further comprising:

2 displaying a map of the network topology and overlaying the map with said succes-
3 sion of graphical images.

1 17. (PREVIOUSLY PRESENTED) The method of claim 14, further comprising:

2 including a time interval criterion which indicates how often to compile and package
3 information from the network information files.

1 18. (PREVIOUSLY PRESENTED) The method of claim 1, further comprising:

2 defining the larger time interval with a starting time and an ending time specified
3 within a filtering criteria.

1 19. (CURRENTLY AMENDED) A data visualization apparatus for graphically presenting
2 characteristics of data traffic on a distributed computer network, comprising:

3 means for monitoring traffic on said network;
4 means for selecting characteristics of said traffic for display;
5 means for obtaining a plurality of values of said characteristics for selected time in-
6 tervals within a larger time interval; and
7 means for presenting said characteristics by playing a rapid succession of graphical
8 images, each graphical image representing said network as nodes connected by lines, said
9 nodes each representing components in said network, said lines representing traffic flow be-
10 tween nodes said components, each graphical image graphically representing the value of
11 said characteristics at a particular time interval within the larger time interval with a property
12 of at least one line of said lines, said property indicating a value of said characteristics.

1 20-21. (CANCELLED)

1 22. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using a width of said at least one line as said property.

1 23. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for a using a color of said at least one line as said property.

1 24. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using an arrow drawn on said at least one line as said property.

1 25. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using a length of said at least one line as said property.

1 26. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using a density of said at least one line as said property.

1 27. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using a visual characteristic of said at least one line as said property.

1 28. (PREVIOUSLY PRESENTED) The apparatus as in claim 19, further comprising:

2 means for displaying a filtering expression in a graphical user interface;

3 means for selecting, from said graphical user interface, records from network infor-
4 mation files to display said characteristics of said traffic.

1 29. (ORIGINAL) The apparatus as in claim 28, further comprising:

2 means for calculating parameters that are associated with the records selected from
3 network files and storing the parameters in a local file.

1 30. (CANCELLED)

1 31. (ORIGINAL) The apparatus as in claim 19, further comprising:

2 means for using a filtering program to select records in network information files that
3 meet selected filtering criteria.

1 32. (PREVIOUSLY PRESENTED) The apparatus as in claim 31, further comprising:

2 means for compiling the selected records from network information files during the
3 selected time intervals, each compiled record meeting at least one selected filtering criterion.

1 33. (ORIGINAL) The apparatus as in claim 32, further comprising:

2 means for calculating data that represent the compiled records, and storing the data in
3 a file.

1 34. (PREVIOUSLY PRESENTED) The apparatus as in claim 19, further comprising:

2 means for displaying a map of the network topology and overlaying the map with said
3 succession of graphical images.

1 35. (PREVIOUSLY PRESENTED) The apparatus as in claim 32, further comprising:

2 means for including a time interval criterion which indicates how often to compile
3 and package information from the network information files.

1 36. (PREVIOUSLY PRESENTED) The apparatus as in claim 19, further comprising:

2 means for defining the larger time interval with a starting time and an ending time
3 specified within a filtering criteria.

1 37. (CURRENTLY AMENDED) A data visualization apparatus for graphically presenting
2 characteristics of data traffic on a distributed computer network, comprising:

3 a computer to monitor traffic on said network;

4 a graphical user interface to select a characteristic of said traffic for display;

5 a reporting system executing on said computer to obtain a plurality of values of said
6 characteristic for selected time intervals within a larger time interval; and

7 a visualization system executing on said computer to present said characteristic by
8 playing a rapid succession of graphical images, each graphical image representing said net-
9 work as nodes connected by lines, said nodes each representing components in said network,
10 said lines representing traffic flow between~~nodes~~ said components, each graphical image
11 graphically representing the value of said characteristic at a particular selected time interval
12 within the larger time interval with a property of at least one line of said lines, said property
13 indicating a value of said characteristics.

1 38-39. (CANCELLED)

1 40. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a width of said at least one line as said
3 property.

1 41. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a color of said at least one line as said
3 property.

1 42. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use an arrow drawn on said at least one
3 line as said property.

1 43. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a length of said at least one line as said
3 property.

1 44. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a density of said at least one line as
3 said property.

1 45. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a visual characteristic of said at least
3 one line as said property.

1 46. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to display a filtering expression in a graphical
3 user interface;

4 instructions to execute in said computer to select, from said graphical user interface,
5 records from network information files to display said characteristic of said traffic.

1 47. (ORIGINAL) The apparatus as in claim 46, further comprising:

2 instructions to execute in said computer to calculate parameters that are associated
3 with the records selected from network files and storing the parameters in a local file.

1 48. (CANCELLED)

1 49. (ORIGINAL) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to use a filtering program to select records in
3 network information files that meet selected filtering criteria.

1 50. (PREVIOUSLY PRESENTED) The apparatus as in claim 49, further comprising:

2 instructions to execute in said computer to compile the selected records from network
3 information files during the selected time intervals, each compiled record meeting at least
4 one selected filtering criterion.

1 51. (ORIGINAL) The apparatus as in claim 50, further comprising:

2 instructions to execute in said computer to calculate data that represent the compiled
3 records, and storing the data in a file.

1 52. (PREVIOUSLY PRESENTED) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to display a map of the network topology and
3 overlaying the map with said succession of graphical images.

1 53. (PREVIOUSLY PRESENTED) The apparatus as in claim 50, further comprising:

2 instructions to execute in said computer to include a time interval criterion which in-
3 dicates how often to compile and package information from the network information files.

1 54. (PREVIOUSLY PRESENTED) The apparatus as in claim 37, further comprising:

2 instructions to execute in said computer to define the larger time interval with a start-
3 ing time and an ending time specified within a filtering criteria.

1 55-56 (CANCELLED)